

Applicant:

Jiro HITOMI, et. al.

Serial No.:

09/910,208

Filed:

July 20, 2001

For:

**NOVEL CALCIUM-BINDING PROTEINS** 

Mail Stop Sequence Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## RESPONSE TO NOTIFICATION OF NONCOMPLIANCE WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCES

Sir:

In response to the Notification of Noncompliance contained in the Official Action mailed October 5, 2004, applicants submit herewith the following:

- A copy of the Notification to Comply as contained in the Official Action;
- A floppy disk containing the Sequence Listing in computer readable format;
- A Paper Copy of the Sequence Listing; and
- A Statement indicating that the contents of the paper and disk are the same and include no new matter.

NYDOCS1-756274.1

The Commissioner is authorized to charge any required fees to Deposit Account No. 01-1944.

Respectfully submitted,

Heidi M. Struse

Registration No. 50,288

Date: December 14, 2004

Anderson Kill & Olick 1251 Avenue of the Americas New York, NY 10020-1182 (212) 278-1000

## **CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Sequence Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 on December 14, 2004

Mággie McGarry

STATES PATENT AND TRADEMARK OFFICE UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandra, Virginia 22313-1450 www.uspio.gov FILING DATE U1/20/2001 ATTORNEY DOCKET NO. APPLICATION NO. FIRST NAMED INVENTOR CONFIRMATION NO. MM4454 4894 Jiro Hitomi 09/910,208 EXAMINER 10/05/2004 HADDAD, MAHER M ANDERSON, KILL & OLICK, P.C. 1251 AVENUE OF THE AMERICAS ART UNIT PAPER NUMBER NEW YORK,, NY 10020-1182 1644 DATE MAILED: 10/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Ola E		
	Application No.	Applicant(s)
Office Action Summary	10,208	HITOMI ET AL.
	Examiner	Art Unit
	Maher M. Haddad	1644
The MAILING DATE of this communication appears on the cover sheet with the correspondence address		
Period for Reply		0) 50014
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
1) Responsive to communication(s) filed on 16 August 2004.		
2a)☐ This action is <b>FINAL</b> . 2b)☒ This action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4) Claim(s) 1-24 is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) 1-24 are subject to restriction and/or election requirement.		
Application Papers		
9) The specification is objected to by the Examiner.		
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.		
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da	
S. Patent and Trademark Office		

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## **DETAILED ACTION**

1. The Art Unit location and the examiner of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Maher Haddad, Art Unit 1644, Technology Center 1600.

2. Sequence compliance: This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence.

Pages 51-56 discloses 18 sequences, however the sequence listing submitted on 8/19/02 contain only two sequences SEQ ID NO: 1 and 2. Applicant response submitted 8/19/03 to the letter sent on 8/7/2002 is incomplete because it provides only two SEQ ID NOs rather than 18 SEQ ID NOs.

Applicant is reminded of the sequence rules which require a submission for all sequences of 10 or more nucleotides or 4 or more amino acids (see 37 CFR 1.821-1.825) and is also requested to carefully review the submitted specification for any and all sequences which require compliance with the rules.

- 2. It is noted that SEQ ID NO: 1 or 12 are cDNA which are limited to their nucleic acid components. For the examination purposes, claims that recite "the amino acid sequence listed in SEQ ID NO: 1 or 12" are considered to read as "the amino acid sequence encoded by SEQ IDNO:1 or 12".
- 3. The previous Restriction Requirement mailed on 4/18/04 is hereby vacated. The new Restriction Requirement is set forth below. Examiner apologized for any inconveniences.
- 4. Restriction to one of the following inventions is required under 35 U.S.C. § 121:
  - I. Claims 1-4, drawn to calcium-binding protein comprising an amino acid sequence which is substantially identical to the amino acid sequence encoded by SEQ ID NO: 1 or 12, peptide and a fusion protein thereof; classified in Class 530, subclasses 395, 837, and 866.
  - II. Claims 5-15 and 17, drawn to DNA of SEQ ID NO: 1 or 12, vector, recombinant host cells and a method for producing a protein, classified in Class 536, subclass 23.5; Class 435, subclasses 69.1, 455, 252.3, and 320.1.

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III. Claim 16, drawn a method for producing a calcium-binding protein by isolating the protein from bovine amniotic fluid or bovine tissue or a human tissue, classified in Class 530, subclass 412.

- IV. Claims 18-23, drawn to an antibody with binding affinity to a protein encoded by SEQ ID NO: 1 or 12 and a method for producing; classified in Class 530, subclass 387.3, and 391.1; Class 424, subclass 133.1; Class 435, subclass 810.
- V. Claims 24, drawn to an assay method for a calcium-binding protein, classified in Class 435, subclass 7.1.
- 4. Groups I-II and IV are different products. Nucleic acids, polypeptides, and antibodies to the polypeptides differ with respect to their structures and physicochemical properties; therefore each product is patentably distinct.
- 5. Groups IV/V are related as product and process of using. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the antibody of Group III can be used for affinity purification, in addition to the assay recited.
- 6. These inventions are distinct for the reasons given above. In addition, they have acquired a separate status in the art as shown by different classification and/or recognized divergent subject matter. Further, even though in some cases the classification is shared, a different field of search would be required based upon the structurally distinct products recited and the various methods of use comprising distinct method steps. Therefore restriction for examination purposes as indicated is proper. Further, a prior art search also requires a literature search. It is an undue burden for the examiner to search more than one invention.

## Species Election

- 7. Irrespective of whichever group applicant may elect, applicant is further required under 35 US 121 (1) to elect a single disclosed species to which claims would be restricted if no generic claim is finally held to be allowable and (2) to list all claims readable thereon including those subsequently added.
  - A. If Group I-V is elected, applicant is required to elect a single specific calciumbinding protein such as SEQ ID NO: 1 (Bovine) or SEQ ID NO: 12 (human).

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These are distinct species because their structures and modes of action are different which, in turn, address different therapeutic endpoints.

Applicant is required under 35 U.S.C. § 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

8. Applicant is advised that a response to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 C.F.R. § 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. M.P.E.P. § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. § 103 of the other invention.

- 9. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.
- 10. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the

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rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

- 12. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maher Haddad whose telephone number is (571) 272-0845. The examiner can normally be reached Monday through Friday from 7:30 am to 4:00 pm. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (571) 272-0841. The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Maher Haddad, Ph.D. Patent Examiner Technology Center 1600 September 28, 2004

CONSTINA CHAIN

COPERVISORY PATENT EXAMINER

COCHOCLOGY CENTER 1600